

## IMPLEMENTATION SCHEDULE

The Implementation Schedule that follows describes recovery task priorities, task numbers, task descriptions, duration of tasks, potential or participating responsible parties, total cost estimate and estimates for the next 5 years, if available, and comments. These tasks, when accomplished, will lead to recovery of bull trout in the Southwest Idaho Recovery Unit. Costs estimates are not provided for tasks which are normal agency responsibility under existing authorities.

Parties with authority, responsibility, or expressed interest to implement a specific recovery task are identified in the Implementation Schedule. Listing a responsible party does not imply that prior approval has been given or require that party to participate or expend any funds. However, willing participants will benefit by demonstrating that their budget submission or funding request is for a recovery task identified in an approved recovery plan, and is therefore part of a coordinated recovery effort to recover bull trout. In addition, section 7(a)(1) of the Endangered Species Act directs all Federal agencies to use their authorities to further the purposes of the Endangered Species Act by implementing programs for the conservation of threatened or endangered species.

Following are definitions to column headings and keys to abbreviations and acronyms used in the implementation schedule:

Priority Number: All priority 1 tasks are listed first, followed by priority 2 and priority 3 tasks.

Priority 1: All actions that must be taken to prevent extinction or to prevent the species from declining irreversibly in the foreseeable future.

Priority 2: All actions that must be taken to prevent a significant decline in species population, habitat quality, or some other significant negative effect short of extinction.

Priority 3: All other actions necessary to provide for full recovery (or reclassification) of the species.

Task Number and Task Description: Recovery tasks are numbered as in the recovery outline. Refer to the action narrative for task descriptions.

Task Duration: Expected number of years to complete the corresponding task. Study designs can incorporate more than one task, which when combined, may reduce the time needed for task completion.

Responsible or Participating Party: Federal, State, Native American Tribes, non-governmental organizations, or universities with responsibility or capability to fund, authorize or carry out the corresponding recovery task. Additional identified agencies or parties are considered cooperators in conservation efforts.

**Bold face type** indicates the agency or agencies that have the lead role for task implementation and coordination, though not necessarily sole responsibility.

Identified parties include:

|            |   |
|------------|---|
| BC         | Boise Corporation                         |
| BLM        | Bureau of Land Management                 |
| EPA        | Environmental Protection Agency           |
| IDEQ       | Idaho Department of Environmental Quality |
| IDFG       | Idaho Department of Fish and Game         |
| IDL        | Idaho Department of Lands                 |
| IDT        | Idaho Department of Transportation        |
| IDWR       | Idaho Department of Water Resources       |
| landowners | private landowners                        |
| NRCS       | Natural Resources Conservation Service    |
| operators  | diversion operators                       |
| USACE      | U.S. Army Corps of Engineers              |
| USBR       | U.S. Bureau of Reclamation                |
| USFWS      | U.S. Fish and Wildlife Service            |
| USFS       | U.S. Forest Service                       |

Cost Estimates: Cost estimates are rough estimates and are only provided for general guidance. Total costs are estimated for both the duration of the task, are itemized annually for the next 5 years, and include estimates of expenditures by local, Tribal, State, and Federal governments and private business and individuals.

An asterisk (\*) in the total cost column indicates ongoing tasks that are currently being implemented as part of normal agency responsibilities under existing authorities. Because these tasks are not being done specifically or solely for bull trout conservation, they are not included in the cost estimates. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed.

Double asterisk (\*\*) in the total cost column indicates that estimated costs for these tasks are not determinable at this time. Input is requested to help develop reasonable cost estimates for these tasks.

Triple asterisk (\*\*\*) indicates costs are combined with or embedded within other related tasks.

## Chapter 18-Southwest Idaho

| Implementation Schedule for the Bull Trout Recovery Plan: Southwest Idaho Recovery Unit, Boise River Recovery Subunit |             |   |                       |                                    |                          |        |        |        |        |        |   |
|---|-------------|---|-----------------------|------------------------------------|--------------------------|--------|--------|--------|--------|--------|---|
| Priority number   | Task number | Task description  | Task duration (years) | Responsible parties (Alphabetical) | Cost estimates (\$1,000) |        |        |        |        |        | Comments                                  |
|   |             |   |                       |                                    | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |   |
| 1   | 1.1.1       | Reduce sediment production from roads.  | 25                    | IDEQ, IDT, USFS                    | ***                      |        |        |        |        |        | Coordinate with task 1.1.2.               |
| 1   | 1.1.2       | Evaluate and improve drainage from existing roads.  | 25                    | IDEQ, IDT, USFS                    | ***                      |        |        |        |        |        | Coordinate with task 1.1.1.               |
| 1   | 1.2.1       | Inventory culverts to identify those inhibiting fish passage, and develop a program with schedules for their replacement or modification to improve fish passage. | 10                    | USFS                               | *                        |        |        |        |        |        | Ongoing <sup>1</sup>                      |
| 1   | 1.2.3       | Install screens on the irrigation diversions in Big Smokey and Willow creeks in the Anderson Ranch Core Area.   | 1                     | IDFG, IDWR, NRCS, operators        | *                        |        |        |        |        |        |   |
| 1   | 1.2.4       | Evaluate possible barriers to fish passage in the Mores Creek watershed and improve passage where necessary.  | 2                     | IDFG, IDT, USFS                    | 40                       | 20     | 20     |        |        |        | Cost estimate for evaluation of barriers. |

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<sup>1</sup>Ongoing tasks are currently being implemented as part of normal agency responsibilities that may benefit bull trout. Because these actions are not specifically being done to address bull trout conservation, they are not included in the cost estimates. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed

## Chapter 18-Southwest Idaho

| Implementation Schedule for the Bull Trout Recovery Plan: Southwest Idaho Recovery Unit, Boise River Recovery Subunit |             |  |                       |   |                          |        |        |        |        |        |  |
|---|-------------|--|-----------------------|---|--------------------------|--------|--------|--------|--------|--------|--|
| Priority number   | Task number | Task description   | Task duration (years) | Responsible parties (Alphabetical)                                | Cost estimates (\$1,000) |        |        |        |        |        | Comments   |
|   |             |  |                       |   | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |  |
| 1   | 1.4.1       | Establish conservation pools in Anderson Ranch Reservoir and Arrowrock Reservoir.  | 5                     | <b>USBR</b> , IDFG, IDWR, USFWS                                   | 198                      | 78     | 30     | 15     | 45     | 30     | Ongoing, see USFWS 1999; Rieber, USBR, <i>in litt.</i> 2001.       |
| 1   | 1.4.2       | Identify and implement operational actions and facilities necessary to prevent or reduce fish passage through dams.        | 5                     | <b>USBR</b> , IDFG, IDWR, USFWS                                   | 290                      | 40     | 72     | 74     | 52     | 52     | Ongoing, see USFWS 1999, 2001; Rieber, USBR, <i>in litt.</i> 2001. |
| 1   | 2.4.1       | Evaluate various methods to reduce the abundance of brook trout.   | 5                     | BLM, <b>IDFG</b> , USFWS, USFS                                    | 250                      | 50     | 50     | 50     | 50     | 50     | Ongoing.   |
| 1   | 2.5.1       | Reduce competition with brook trout where they overlap with bull trout, especially in spawning and rearing habitat.        | 25                    | BLM, <b>IDFG</b> , USFWS, USFS                                    | ***                      |        |        |        |        |        | Task dependent on results of task 2.4.1.                           |
| 1   | 4.2.1       | Prevent the establishment of barriers that may inhibit the movement of bull trout within the Boise River Recovery Subunit. | 25                    | <b>BLM</b> , <b>USBR</b> , <b>IDFG</b> , <b>IDL</b> , USFWS, USFS | *                        |        |        |        |        |        | Ongoing.   |
| 2   | 1.3.1       | Restrict suction dredge mining in bull trout spawning and rearing habitat.   | 25                    | <b>IDL</b> , USFS   | *                        |        |        |        |        |        | No additional costs expected to existing permit system.            |

## Chapter 18-Southwest Idaho

| Implementation Schedule for the Bull Trout Recovery Plan: Southwest Idaho Recovery Unit, Boise River Recovery Subunit |             |  |                       |  |                          |        |        |        |        |        |  |
|---|-------------|--|-----------------------|--|--------------------------|--------|--------|--------|--------|--------|--|
| Priority number   | Task number | Task description   | Task duration (years) | Responsible parties (Alphabetical)       | Cost estimates (\$1,000) |        |        |        |        |        | Comments   |
|   |             |  |                       |  | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |  |
| 2   | 1.3.2       | Identify areas where livestock grazing has negatively affected riparian and aquatic habitats, and implement actions to restore and improve stream and riparian habitat.          | 25                    | <b>BLM, IDFG, landowners, NRCS, USFS</b> | 500                      | 20     | 20     | 20     | 20     | 20     | Cost estimate for identifying areas affected by grazing. |
| 2   | 5.5.1       | Continue studies on bull trout distribution, abundance, life histories, and factors affecting them.  | 5                     | <b>BLM, USBR, IDFG, IDL, USFWS, USFS</b> | 125                      | 25     | 25     | 25     | 25     | 25     | Ongoing.   |
| 2   | 5.5.2       | Continue studies on the distribution, status, and life history of bull trout in the Mores Creek watershed.   | 3                     | <b>USBR, IDFG, USFS</b>                  | 150                      | 50     | 50     | 50     |        |        | Ongoing.   |
| 2   | 5.5.3       | Identify unoccupied areas that may be suitable for bull trout spawning and rearing in the Lucky Peak Core Area and develop a strategy to establish additional local populations. | 3                     | <b>USBR, IDFG, USFS, USFWS</b>           | 150                      |        | 50     | 50     | 50     |        | Coordinate with task 5.5.2.                              |
| 3   | 1.1.3       | Assess the risk of negative effects of historic mine tailings on bull trout, and implement actions to eliminate or reduce them, if necessary.                                    | 5                     | <b>EPA, IDEQ, IDFG, IDL, USFWS, USFS</b> | 100                      | 20     | 20     | 20     | 20     | 20     | Ongoing, in part. Cost estimate for assessment.          |
| 3   | 1.2.2       | Evaluate bull trout use of the fish ladder at Atlanta Dam.   | 10                    | <b>IDFG</b>                              | 150                      | 15     | 15     | 15     | 15     | 15     | Ongoing  |

## Chapter 18-Southwest Idaho

| Implementation Schedule for the Bull Trout Recovery Plan: Southwest Idaho Recovery Unit, Boise River Recovery Subunit |             |   |                       |  |                          |        |        |        |        |        |   |
|---|-------------|---|-----------------------|--|--------------------------|--------|--------|--------|--------|--------|---|
| Priority number   | Task number | Task description  | Task duration (years) | Responsible parties (Alphabetical)             | Cost estimates (\$1,000) |        |        |        |        |        | Comments  |
|   |             |   |                       |  | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |   |
| 3   | 3.2.1       | Continue and expand public education programs for fish identification, angling regulations, reasons for protective regulations on bull trout, and fish handling practices.                                | 25                    | BLM, <b>IDFG</b> , USFS                        | 250                      | 10     | 10     | 10     | 10     | 10     | Ongoing, cost estimate for production of educational materials. |
| 3   | 3.2.2       | Continue enforcement of current fishing regulations and increase patrols.   | 25                    | <b>IDFG</b>                                    | *                        |        |        |        |        |        | Ongoing.  |
| 3   | 3.4.1       | Investigate compliance with fishing regulations and opportunities to benefit bull trout.  | 25                    | <b>IDFG</b>                                    | ***                      |        |        |        |        |        | Ongoing, coordinate with tasks 3.2.1 and 3.2.2.                 |
| 3   | 4.1.1       | Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative). |                       | <b>BLM, USBR, IDEQ, IDFG, IDL, USFWS, USFS</b> | *                        |        |        |        |        |        | See Chapter 1.  |

## Chapter 18-Southwest Idaho

| Implementation Schedule for the Bull Trout Recovery Plan: Southwest Idaho Recovery Unit, Boise River Recovery Subunit |             |  |                       |  |                          |        |        |        |        |        |   |
|---|-------------|--|-----------------------|--|--------------------------|--------|--------|--------|--------|--------|---|
| Priority number   | Task number | Task description   | Task duration (years) | Responsible parties (Alphabetical)             | Cost estimates (\$1,000) |        |        |        |        |        | Comments  |
|   |             |  |                       |  | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |   |
| 3   | 4.1.2       | Describe and monitor genetic and phenotypic characteristics of bull trout in core areas, and incorporate information into management strategies. | 5                     | <b>BLM, USBR, IDEQ, IDFG, IDL, USFWS, USFS</b> | 100                      | 20     | 20     | 20     | 20     | 20     | Cost estimate for the collection of tissue during existing surveys. |
| 1   | 1.1.1       | Reduce sediment production from roads.   | 25                    | <b>IDEQ, IDT, USFS</b>                         | *                        |        |        |        |        |        |   |
| 1   | 1.2.1       | Inventory culverts to identify those inhibiting fish passage, and develop program to improve fish passage.                                       | 25                    | <b>IDFG, IDT, USFS</b>                         | *                        |        |        |        |        |        |   |
| 1   | 1.2.3       | Identify and implement actions needed to prevent the loss of bull trout at irrigation diversions and improve fish passage.                       | 25                    | <b>IDFG, IDWR, NRCS, operators, USFS</b>       | *                        |        |        |        |        |        |   |
| 1   | 1.4.1       | Evaluate and implement appropriate operations at Deadwood Dam to provide adequate flows and temperatures for bull trout downstream of the dam.   | 3                     | <b>USBR, IDFG, IDWR, USFWS</b>                 | 180                      |        | 50     | 50     | 80     |        | Coordinate with task 1.4.2. See Rieber, USBR, <i>in litt.</i> 2001. |
| 1   | 1.4.2       | Establish a conservation pool in Deadwood Dam.   | 4                     | <b>USBR, IDFG, IDWR, USFWS</b>                 | 125                      | 40     | 30     | 45     | 10     |        | Ongoing, see Rieber, USBR, <i>in litt.</i> 2001.                    |
| 1   | 2.4.1       | Evaluate various methods to reduce the abundance of brook trout.   | 5                     | <b>BLM, IDFG, USFWS, USFS</b>                  | 250                      | 50     | 50     | 50     | 50     | 50     | Ongoing.  |

## Chapter 18-Southwest Idaho

|   |       |   |    |   |     |    |    |    |    |    |  |
|---|-------|---|----|---|-----|----|----|----|----|----|--|
| 1 | 2.5.1 | If feasible, reduce brook trout abundance where they overlap with bull trout and in areas where bull trout may become established.                                      | 25 | BLM, IDFG, USFWS, USFS                  | *   |    |    |    |    |    | Task dependent on results of task 2.4.1.                 |
| 1 | 4.2.1 | Prevent the establishment of barriers that may inhibit the movement of bull trout within the Payette River Recovery Subunit.  | 25 | BLM, USBR, IDFG, IDL, USFWS, USFS       | *   |    |    |    |    |    | Ongoing.   |
| 2 | 1.3.1 | Identify areas where livestock grazing has negatively affected riparian and aquatic habitats, and implement actions to restore and improve stream and riparian habitat. | 25 | BLM, IDFG, landowners, NRCS, USFS       | 500 | 20 | 20 | 20 | 20 | 20 | Cost estimate for identifying areas affected by grazing. |
| 2 | 1.3.2 | Investigate and implement methods for restoring habitat conditions in the lower Middle Fork Payette River.  | 25 | IDFG, USFS                              | 500 | 20 | 20 | 20 | 20 | 20 | Cost estimate for investigate of methods.                |
| 2 | 5.5.1 | Conduct additional surveys focusing on migratory bull trout and bull trout habitat.   | 5  | BLM, USBR, IDEQ, IDFG, IDL, USFWS, USFS | 250 | 50 | 50 | 50 | 50 | 50 |  |
| 2 | 5.5.3 | Conduct comprehensive surveys for bull trout in the upper North Fork Payette River Core Area.   | 3  | IDFG, USFS                              | 150 | 50 | 50 | 50 |    |    |  |
| 2 | 5.5.4 | Develop a strategy to establish new local populations in unoccupied areas identified as having potential spawning and rearing habitat.                                  | 3  | IDFG, USFWS, USFS                       | 150 |    | 50 | 50 | 50 |    |  |
| 3 | 1.1.2 | Investigate effects of sediment and potential toxic materials from Deadwood Mine on the Deadwood River and bull trout.  | 2  | EPA, IDEQ, IDFG, USFS                   | 100 | 50 | 50 |    |    |    |  |

## Chapter 18-Southwest Idaho

|   |       |   |    |  |     |    |    |    |  |  |                |
|---|-------|---|----|--|-----|----|----|----|--|--|----------------|
| 3 | 1.2.2 | Replace the culvert identified as a fish barrier in Second Fork Squaw Creek.  | 1  | <b>USFS</b>                                    | *   |    |    |    |  |  |                |
| 3 | 1.2.4 | Evaluate fish passage at diversions on Lake Fork and Fisher Creek and implement actions to prevent fish loss and improve passage, if necessary.   | 2  | <b>IDFG, IDWR, operators, USFS</b>             | *   |    |    |    |  |  |                |
| 3 | 3.2.1 | Continue and expand public education programs for fish identification, angling regulations, reasons for protective regulations on bull trout, and fish handling practices.                                | 25 | <b>BLM, IDFG, USFS</b>                         | *   |    |    |    |  |  | Ongoing.       |
| 3 | 3.2.2 | Continue enforcement of current fishing regulations and increase patrols.   | 25 | <b>IDFG</b>                                    | *   |    |    |    |  |  | Ongoing.       |
| 3 | 3.2.3 | Evaluate compliance of angling regulations and incidence of bull trout poaching in Gold Fork River from Kennally Creek upstream to the confluence of the North Fork and South Fork Gold Fork River.       | 3  | <b>IDFG</b>                                    | *   |    |    |    |  |  |                |
| 3 | 3.3.1 | Evaluate the effects of fish stocking and the fishery on bull trout in Deadwood Reservoir.  | 3  | <b>IDFG</b>                                    | 150 | 50 | 50 | 50 |  |  |                |
| 3 | 4.1.1 | Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative). |    | <b>BLM, USBR, IDEQ, IDFG, IDL, USFWS, USFS</b> | *   |    |    |    |  |  | See chapter 1. |

## Chapter 18-Southwest Idaho

|   |       |  |   |  |     |    |    |    |    |    |   |
|---|-------|--|---|--|-----|----|----|----|----|----|---|
| 3 | 4.1.2 | Describe and monitor genetic and phenotypic characteristics of bull trout in core areas, and incorporate information into management strategies. | 5 | <b>BLM, USBR, IDEQ, IDFG, IDL, USFWS, USFS</b> | 100 | 20 | 20 | 20 | 20 | 20 | Cost estimate for the collection of tissue during existing surveys. |
| 3 | 5.5.2 | Compile and synthesize historic information concerning bull trout presence, distribution, and abundance in the South Fork Payette River basin.   | 3 | <b>IDFG, USFS</b>                              | 75  | 25 | 25 | 25 |    |    |   |

| Implementation schedule for the bull trout recovery plan: Southwest Idaho Unit, Weiser River Recovery Subunit |             |   |                       |  |                          |        |        |        |        |        |   |
|---|-------------|---|-----------------------|--|--------------------------|--------|--------|--------|--------|--------|---|
| Priority number   | Task number | Task description  | Task duration (years) | Responsible parties (Alphabetical)                                   | Cost estimates (\$1,000) |        |        |        |        |        | Comments  |
|   |             |   |                       |  | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |   |
| 1   | 1.1.1       | Reduce sediment production from roads.  | 25                    | BC, BLM, IDEQ, IDL, IDT, <b>USFS</b>                                 | *                        |        |        |        |        |        | Ongoing.  |
| 1   | 1.2.1       | Inventory culverts to identify those inhibiting fish passage, and develop program to improve fish passage.  | 25                    | BC, BLM, IDFG, IDL, <b>USFS</b>                                      | *                        |        |        |        |        |        | Ongoing   |
| 1   | 1.2.2       | Identify facilities and actions needed to prevent the loss of bull trout at irrigation diversions.  | 25                    | IDFG, <b>IDWR</b> , NCRS, <b>operators</b> , <b>USFS</b>             | *                        |        |        |        |        |        |   |
| 1   | 1.3.1       | Identify areas where livestock grazing has negatively affected riparian and aquatic habitats, and implement actions to restore and improve stream and riparian habitat. | 25                    | <b>BLM</b> , CDFG, IDL, <b>landowners</b> , NRCS, USFWS, <b>USFS</b> | 500                      | 20     | 20     | 20     | 20     | 20     | Cost estimates for identifying areas affected by grazing. |

## Chapter 18-Southwest Idaho

| Implementation schedule for the bull trout recovery plan: Southwest Idaho Unit, Weiser River Recovery Subunit |             |   |                       |                                    |                          |        |        |        |        |        |  |
|---|-------------|---|-----------------------|------------------------------------|--------------------------|--------|--------|--------|--------|--------|--|
| Priority number   | Task number | Task description  | Task duration (years) | Responsible parties (Alphabetical) | Cost estimates (\$1,000) |        |        |        |        |        | Comments                                 |
|   |             |   |                       |                                    | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |  |
| 1   | 2.4.1       | Evaluate various methods to reduce the abundance of brook trout.  | 5                     | BLM, IDFG, USFWS, USFS             | 250                      | 50     | 50     | 50     | 50     | 50     |  |
| 1   | 4.2.1       | Prevent the establishment of barriers that may inhibit the movement of bull trout within the Weiser River Recovery Subunit.                                   | Perpetual             | BLM, IDFG, IDL, USFWS, USFS        | *                        |        |        |        |        |        | Ongoing.                                 |
| 2   | 2.5.1       | Conduct surveys to determine the distribution of brook trout in the Weiser River Recovery Subunit.  | 3                     | BLM, IDFG, USFS                    | 150                      |        | 50     | 50     | 50     |        |  |
| 2   | 2.5.2       | Conduct a study on the feasibility of reducing brook trout abundance where they overlap with bull trout and in areas where bull trout may become established. | 3                     | BLM, IDFG, USFWS, USFS             | 150                      |        |        | 50     | 50     | 50     | Task dependent on results of task 2.4.1. |
| 2   | 5.5.1       | Continue surveys to refine information on bull trout distribution, abundance, life histories, and habitats.   | 5                     | BLM, IDEQ, IDFG, IDL, USFWS, USFS  | 125                      | 25     | 25     | 25     | 25     | 25     |  |
| 2   | 5.5.2       | Develop a strategy to establish new local populations in unoccupied areas identified as having potential spawning and rearing habitat.                        | 3                     | IDFG, IDL, USFWS, USFS             | 150                      |        | 50     | 50     | 50     |        |  |
| 3   | 3.3.1       | Evaluate the effects of fish stocking and the fisheries on bull trout.  | 3                     | IDFG                               | 150                      |        | 50     | 50     | 50     |        |  |

## Chapter 18-Southwest Idaho

| Implementation schedule for the bull trout recovery plan: Southwest Idaho Unit, Weiser River Recovery Subunit |             |   |                       |  |                          |        |        |        |        |        |   |
|---|-------------|---|-----------------------|--|--------------------------|--------|--------|--------|--------|--------|---|
| Priority number   | Task number | Task description  | Task duration (years) | Responsible parties (Alphabetical)       | Cost estimates (\$1,000) |        |        |        |        |        | Comments  |
|   |             |   |                       |  | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |   |
| 3   | 4.1.1       | Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative). |                       | <b>BLM, IDEQ, IDFG, IDL, USFWS, USFS</b> | *                        |        |        |        |        |        | See chapter 1.  |
| 3   | 4.1.2       | Describe and monitor genetic and phenotypic characteristics of bull trout in core areas, and incorporate information into management strategies.  | 5                     | <b>BLM, IDEQ, IDFG, IDL, USFWS, USFS</b> | 100                      | 20     | 20     | 20     | 20     | 20     | Cost estimate for the collection of tissue during existing surveys. |